WebSplitter: a unified XML framework for multi-device collaborative Web browsing

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Sp nsors SIGGROUP: ACM Special Interest Group on Supporting Group Work
SIGCHI: ACM Special Interest Group on Computer-Human Interaction

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↑ ABSTRACT

WebSplitter symbolizes the union of pervasive multi-device computing and collaborative multi-user computing. WebSplitter provides a unified XML framework that enables multi-device and multi-user Web browsing. WebSplitter splits a requested Web page and delivers the appropriate partial view of each page to each user, or more accurately to each user's set of devices. Multiple users can participate in the same browsing session, as in traditional conferencing groupware. Depending on the access privileges of the user to the different components of content on each page, WebSplitter generates a personalized partial view. WebSplitter further splits the partial view among the devices available to each user, e.g. laptop, wireless PDA, projection display, stereo speakers, orchestrating a composite presentation across the devices. A wireless PDA can browse while remotely controlling the multimedia capabilities of nearby devices. The architecture consists of an XML metadata policy file defining access privileges to XML tags on a Web page, a middleware proxy that splits XML Web content to create partial views, and a client-side component, e.g. applet, enabling user login and reception of pushed browsing data. Service discovery finds and registers proxies, browsing sessions, and device capabilities. We demonstrate the feasibility of splitting the different tags in an XML Web page to different end users browsers, and of pushing updates from the browsing session to heterogeneous devices, including a laptop and a PDA.

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Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

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↑ INDEX TERMS

Primary Classification:

I. Computing Methodologies

↳ **I.7** DOCUMENT AND TEXT PROCESSING

↳ **I.7.2** Document Preparation

↳ **Nouns:** XML

Additional Classification:

D. Software

↳ **D.3** PROGRAMMING LANGUAGES

↳ **D.3.3** Language Constructs and Features

↳ **Subjects:** Frameworks

H. Information Systems

↳ **H.3** INFORMATION STORAGE AND RETRIEVAL

↳ **H.3.5** On-line Information Services

↳ **Subjects:** Web-based services

↳ **H.5** INFORMATION INTERFACES AND PRESENTATION (I.7)

↳ **H.5.2** User Interfaces (D.2.2, H.1.2, I.3.6)

↳ **Subjects:** Interaction styles (e.g., commands, menus, forms, direct manipulation)

↳ **H.5.3** Group and Organization Interfaces

↳ **Subjects:** Collaborative computing; Web-based interaction

General Terms:

Design, Human Factors, Languages, Management, Performance, Theory

Keywords:

PDA, XML, co-browsing, collaboration, groupware, middleware, multi-device, partial view, pervasive, proxy, remote control, service discovery, wireless

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  Paul Butterworth , Allen Otis , Jacob Stein

- An intelligent component database for behavioral synthesis
  Proceedings of the 27th ACM/IEEE conference on Design automation
  Gwo-Dong Chen , Daniel D. Gajski

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Please review the Quick Tips below or for more information see the Search Tips.

Quick Tips

- Enter your search terms in lower case with a space between the terms.

  ```
  sales offices
  ```

  You can also enter a full question or concept in plain language.

  ```
  Where are the sales offices?
  ```

- Capitalize proper nouns to search for specific people, places, or products.

  ```
  John Colter, Netscape Navigator
  ```

- Enclose a phrase in double quotes to search for that exact phrase.

  ```
  "museum of natural history" "museum of modern art"
  ```

- Narrow your searches by using a + if a search term must appear on a page.

  ```
  museum +art
  ```

- Exclude pages by using a - if a search term must not appear on a page.

  ```
  museum -Paris
  ```

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

```
museum +"natural history" dinosaur -Chicago
```

h c g e cf

Nothing Found

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```

h c g e cf

Terms used **master template** Found **12** of **147,793**

Sort results by: relevance

Display results: expanded form

Save results to a Binder

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Results 1 - 12 of 12

Relevance scale

1 Tokenless static data flow using associative templates

T. L. Sterling, D. S. Wills, E. Y. Chan

November 1988 **Proceedings of the 1988 ACM/IEEE conference on Supercomputing**

Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references, index terms

The static data flow model of computation promises high performance from fine grained parallelism, but conventional token-driven static data flow architectures are inefficient in terms of memory bandwidth and microcycles required per operation. The associative template mechanism, a new application of associative techniques, employs specially configured content-addressable memories to provide efficient flow control for static data flow program execution. It supports static data flow ...

2 A software engineering experience in the management, design and implementation of a data secure system

David K. Hsiao

October 1976 **Proceedings of the 2nd international conference on Software engineering**

Full text available: pdf(739.30 KB) Additional Information: full citation, abstract, references, index terms

HSDMS (Highly Secure Data Management System) is a secure, on-line and multi-user experimental database management system developed on the Digital Equipment Corporation's PDP-10 computer system. It is a vehicle for testing new facilities and applications of data management and access control. Furthermore the development of HSDMS itself has been aimed at the outset as an exercise in software engineering management and control. In the first part of the paper, the software engineerin ...

Keywords: Access control, Authority item, Data independence, Data secure system, Data security, Parallel access, Prompting, Security atom, User interface

3 Facilitating the development of representations in hypertext with IDE

D. S. Jordan, D. M. Russell, A.-M. S. Jensen, R. A. Rogers

November 1989 **Proceedings of the second annual ACM conference on Hypertext**

Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, citings, index terms

Hypertext systems are used for a variety of representational tasks, many that involve fairly formalized structures. Because hypertext systems are generally intended for developing informal (unstructured data) and semi-formal (semantic networks) structures, developing

more formal structures can be difficult. Regular patterns in structures must often be recreated from primitive elements (individual nodes and links) resulting in a high overhead cost. In this paper we describe the Instructional ...

4 Gate matrix layout synthesis with two-dimensional folding

I. Lin, D. H. C. Du, S. H. C. Yen

June 1989 **Proceedings of the 26th ACM/IEEE conference on Design automation**

Full text available: pdf(850.00 KB) Additional Information: full citation, abstract, references, index terms

We have developed a gate matrix layout synthesis tool which utilizes folding technique on both rows and columns. The conventional interval graph model and the recently proposed dynamic net-list representation can not fully depict circuit schematics such as inter-net connections. The incomplete representations may mislead the search process for an optimal solution during the layout partitioning and the gate ordering phases. We propose a new graph-based model called hierarchical dynamic net-l ...

5 Computer-assisted template layout

Kenneth E. Smith

June 1970 **Proceedings of the 7th workshop on Design automation**

Full text available: pdf(967.33 KB) Additional Information: full citation, abstract, references, index terms

This paper discusses a mnemonic coding language and translation program used to produce master sheet metal templates on a computer-controlled flatbed plotter. The major advantage of computer-assisted template layout is the ability to reproduce identical templates for use at different locations or to replace mutilated templates by simply reprocessing the original input data cards through a computer-plotter combination. A typical template required about two hours for preparation of the input ...

6 Flexibility and control for dynamic workflows in the WORLDS environment

Douglas P. Bogia, Simon M. Kaplan

August 1995 **Proceedings of conference on Organizational computing systems**

Full text available: pdf(2.78 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a model and prototype implementation, called obligations, for handling flexible, dynamic changes to workflows. The model uses multiple inheritance and an overhead transparency metaphor to construct a network of activities. Each 'sheet' holds portions of the network to be constructed. Some of these sheets contain local modifications that are not shared among other similar activities and others hold general specifications that all instances should follow, ...

7 Document creation II: Page composition using PPML as a link-editing script

Steven R. Bagley, David F. Brailsford

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available: pdf(197.33 KB) Additional Information: full citation, abstract, references, index terms

The advantages of a COG (Component Object Graphic) approach to the composition of PDF pages have been set out in a previous paper [1]. However if pages are to be composed in this way then the individual graphic objects must have known bounding boxes and must be correctly placed on the page in a process that resembles the link editing of a multi-module computer program. Ideally the linker should be able to utilize all declared resource information attached to each COG.

We have investiga ...

Keywords: PDF, PPML, form Xobjects, graphic objects, link editing

8 Design, implementation and testing of extended and mixed precision BLAS
Xiaoye S. Li, James W. Demmel, David H. Bailey, Greg Henry, Yozo Hida, Jimmy Iskandar, William Kahan, Suh Y. Kang, Anil Kapur, Michael C. Martin, Brandon J. Thompson, Teresa Tung, Daniel J. Yoo
June 2002 **ACM Transactions on Mathematical Software (TOMS)**, Volume 28 Issue 2

Full text available: pdf(456.84 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article describes the design rationale, a C implementation, and conformance testing of a subset of the new Standard for the BLAS (Basic Linear Algebra Subroutines): Extended and Mixed Precision BLAS. Permitting higher internal precision and mixed input/output types and precisions allows us to implement some algorithms that are simpler, more accurate, and sometimes faster than possible without these features. The new BLAS are challenging to implement and test because there are many more subr ...

Keywords: BLAS, double-double arithmetic, extended and mixed precision

9 New life in dusty decks: results of porting a CM Fortran based aeroacoustic model to high performance Fortran
Jeffrey J. Nucciarone, Yusuf Özyörük, Lyle N. Long
November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(110.48 KB) Additional Information: full citation, abstract, references

The High Performance Fortran language is a 'standard by consensus', developed by individuals and vendors in the high performance computing industry, to provide a low barrier entry to parallel computing. It promises to be an easier to use development environment for distributed memory computing platforms compared to the programming complexity required by message passing libraries such as PVM and MPI. HPF promises much and is still in its infancy.Since HPF was developed in part based on experience ...

Keywords: Thinking Machines CM Fortran, aeroacoustics, dusty decks, high performance Fortran

10 Simulation of memory chip line using an electronics manufacturing simulator
Douglas N. Estremadoyro, Phillip A. Farrington, Bernard J. Schroer, James J. Swain
December 1997 **Proceedings of the 29th conference on Winter simulation**

Full text available: pdf(901.04 KB) Additional Information: full citation, references, index terms

11 Simulation environment for electronics manufacturing
Phillip A. Farrington, John S. Rogers, Bernard J. Schroer, James J. Swain, John L. Evans
December 1995 **Proceedings of the 27th conference on Winter simulation**

Full text available: pdf(665.39 KB) Additional Information: full citation, references, index terms

12 Rapid previewing via volume-based solid modeling
Naeem Shareef, Roni Yagel
December 1995 **Proceedings of the third ACM symp sium n S lid modeling and applications**

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Results 1 - 12 of 12

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N thing Found

Your search for **+"one-to-many style sheet"** did not return any results.

You may want to try an Advanced Search for additional options.

Please review the Quick Tips below or for more information see the Search Tips.

Quick Tips

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  ```
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  You can also enter a full question or concept in plain language.

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  Where are the sales offices?
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  John Colter, Netscape Navigator
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- Enclose a phrase in double quotes to search for that exact phrase.

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  museum +art
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  museum -Paris
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museum +"natural history" dinosaur -Chicago
```

Terms used **master style sheet** Found **1** of **147,793**

Sort results by relevance

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Results 1 - 1 of 1

Relevance scale

1 Visualization of EDI messages: facing the problems in the use of XML

Reija Korhonen, Airi Salminen

September 2003 **Proceedings of the 5th international conference on Electronic commerce**

Full text available: pdf(370.26 KB) Additional Information: full citation, abstract, references, index terms

Multi-organizational EDI message networks are complicated communication environments with various standards and technologies. The role of third party message exchange hubs has become more important and their tasks more difficult. Current development activities for supporting the utilization of XML in electronic commerce focuses on message standardization and specification of common business architectures, processes, and web practices. A need to visualize EDI messages in different contexts to hum ...

Keywords: EDI, XML, XSL, business document, language, style sheets, visualization

Results 1 - 1 of 1

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Search Results Results **1 - 10** of about **22** for **"Master template" "WML""HTML""XML"** - 0.24 sec. (A

1. http://fdsapi.sourceforge.net/htmldocs/TemplateUsersGuide.htm
... 10. Sample **Master Template**..... 43 ... dynamic text
fdsapi.sourceforge.net/**html**docs/**Template**UsersGuide.htm - 362k - Cached - More from this site

2. Building Documents in ACS
... style on a site-global basis via a **master template**. difficult to write a script that returns an ... required b
www.eveandersson.com/doc/documents - 11k - Cached - More from this site

3. Runtime Collective: Josephine 2.x Framework Component Research
... XMLC - Compiles **HTML**, **WML**, and **XML** documents into DOM template objects that can be manipulat
runtime-collective.com/josephine/.../barracuda_vs_struts.**html** - 133k - Cached - More from this site

4. WebTransactions (PDF)
... However, an **HTML**-to-**WML** filter is still not available ... The following **master template** can be used fo
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javaboutique.internet.com/resources/books/J2EE_**XML**/j2ee2_4.**html** - 66k - Cached - More from this site

6. SUGI 27: ODS Markup: The Power of Choice and Change (PDF)
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10. http://www.synkron.com/sw4316.asp?usepf=true
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